

THE BULLETIN

AUGUST 22, 1994 - 48TH YEAR - NUMBER 2

U OF T, OISE MERGER TALKS EXTENDED

NEGOTIATORS FOR U OF T AND the Ontario Institute for Studies in Education will seek a two-week extension to Sept. 15 in their attempt to reach a merger agreement.

Both parties released position papers during the week of Aug. 8. Angela Hildyard, OISE's chief negotiator, requested the extension to discuss U of T's position with the institute's board of governors. U of T has agreed to the adjournment, said Provost Adel Sedra.

"I need to receive further instructions from my board before I can proceed," Hildyard said Aug. 18. She expects to meet with members before the end of the month.

In the meantime she will send a letter to Dave Cooke, minister of education and training, seeking his approval of the deadline extension.

Both sides may resume negotiations in early September, she said.

The teams' position papers show they are far from a merger. Agreements with unionized faculty and staff are the major stumbling blocks. "The position papers are extremely different," Sedra acknowledged.

U of T foresees combining its undergraduate Faculty of Education with OISE's graduate school to create a merged education faculty. The Ontario Institute for Studies in Education of the University of Toronto would come under the governance of U of T's Governing Council, the budget would consist of the pooled resources of OISE and the Faculty of Education.

OISE faculty would relinquish unionized status for the University's

Memorandum of Agreement, according to U of T's proposal. Tenured and tenure-track faculty would retain their ranks. A decision regarding the status of all collective agreements and unionized staff would be made later, possibly by the Ontario Labour Relations Board, said Dean Michael Fullan of the Faculty of Education.

OISE's proposal calls for retention of all collective agreements and the establishment of the new institution's own governing board. U of T's president would be given the power to appoint a majority of board members but the body would be autonomous and "responsible for determining its own priorities," states a memorandum from Hildyard to OISE faculty and staff. Faculty and staff in the Faculty of Education would be transferred to the new body,

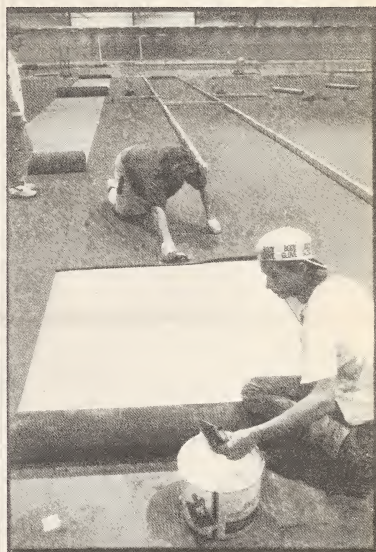
the Ontario Institute for Studies in Education at the University of Toronto.

Arthur Kruger, the institute's director, said there is agreement in principle in some important areas including budgetary guarantees that funding not be cut at the new

faculty beyond the average for the University, up until 2000. He also notes that U of T's proposal to transfer tenure of OISE faculty to U of T is evidence the University "is seriously interested" in merging.

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Rolling Out the Carpet



The Athletic Centre's field house will be a cushier place to work out come Sept. 6. Workers are busy laying 65 square feet of rubber on top of the existing floor. The 14-year-old surface was in need of repair and had lost much of its original cushioning. The job, which started in early August, will cost about \$275,000.

HOUSING

IT'S NOT THE RITZ BUT...

Summer room for rent: cheap, cheerful, great location

By ALFRED HOLDEN

NILS MASUR and KAY CURSIEFEN, 16-year-old boys who live on the same street in Dusseldorf, Germany, have never met Cathy Halam, a 32-year-old manager of health records at Toronto's Hillcrest Hospital. But the three have something in common: with thousands of others they have taken rooms this year at what becomes, during summer, one of Ontario's largest hotels — the University of Toronto.

Throwing open University and college residences to the public for accommodation, conferences and summer camps is nothing new at U of T or other

Canadian universities. But with costs rising and budgets shrinking, there is an even greater push to generate money year-round.

At U of T marketing efforts were stepped up this year and seem to be paying off. "We've done very well," says Michelle MacKinnon, bursar at Massey College. She estimates the 80 percent occupancy rate for 69 rooms will generate more than \$100,000. Guests pay \$37 to \$45 a night, including breakfast; typical Toronto hotels charge double to triple those rates.

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INSIDE

Pristine or Polluted?

RESEARCHERS ANALYZING ARCTIC water samples for radioactivity may find levels dangerous to plants, animals and humans. Page 5



Generation Gap

DO THE YOUNG RESENT THE elderly for receiving the government's financial support? Bits & Pieces Page 7

Staff Association Names President

LOUISE OLIVER, ASSISTANT TO the registrar in the Faculty of Pharmacy, has been acclaimed president of the U of T Staff Association.

Oliver, UTSA's current vice-president (salary and benefits), was the only candidate nominated to the position. She replaces John Malcolm who leaves the post Aug. 31 to dedicate more time to his work as a craftsperson in the academic machine shop at Etimdale.

"I am quite excited about the possibility of serving as president," Oliver said in an interview. One of her main goals during her expected eight-month term in office will be to "keep the lines of communication with our members open."

She also believes that one of her biggest challenges will be to evaluate and perhaps renegotiate portions of UTSA's framework agreement with the administration. The two-year agreement that guides relations between the two is up for renewal in the 1994-95 academic year.

Oliver joined U of T, and pharmacy, in 1988. She began working with UTSA in 1992, serving on

various committees including status of women, policy and pay equity. Last November she became UTSA's assistant vice-president (policy) and in May took over salary and benefits from outgoing vice-president Judith Eichman of the Institute for Environmental Studies.

Oliver's acclamation leaves a vice-presidential vacancy on UTSA's executive. The association also hopes to fill another post this fall — that of vice-president (policy), recently vacated by Joanna Blanas of the Department of English.



Louise Oliver

Funding Formula Suggests Purchasing Services

By SUZANNE SOTO

ONTARIO UNIVERSITIES COULD be funded through a new system in which the government would "purchase" their services such as teaching and research, a new provincial report suggests.

Currently, says the document entitled Sustaining Quality in Changing Times — Funding Ontario Universities, universities receive a determined amount of money based on a 25-year-old funding formula that will not accommodate changes expected in the next decade. These include heightened public demand for greater university accessibility, flexibility and financial and academic accountability.

However, several university officials including some at U of T, believe such a plan would not work and are questioning the need to change the current system.

The document, prepared by the Ontario Council on University Affairs (OCUA) and released in early August, proposes three funding alternatives. The first two would moderately adjust the existing formula to make it more flexible and effective. The third proposal would introduce an entirely new system where the government would determine the amount of service it wants from universities and allocate funds accordingly. Teaching and research would be funded separately.

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AWARDS & HONOURS

Gandy awarded honorary degree

PROFESSOR ÉMERITUS JOHN GANDY OF THE FACULTY OF Social Work was awarded an honorary doctor of laws degree from St. Thomas University in Fredericton, NB, in May. Gandy, who joined U of T in 1966, has published extensively in the areas of corrections, social planning and the organization and delivery of social services. He is currently vice-president of Metro Toronto's social planning council. In his convocation address he urged students to become involved in reforming Canada's social safety net and in maintaining the reputation of the country as caring and compassionate.

Beiner's book wins prize

PROFESSOR RONALD BEINER OF THE DEPARTMENT OF Political Science was awarded the 1992-93 C.B. Macpherson Prize from the Canadian Political Science Association for his book *What's the Matter with Liberalism?* The prize is named in honour of Crawford Brough Macpherson, who was an inter-



nationally renowned teacher and scholar of political theory at U of T. It is awarded every two years for the best book in political theory. Beiner's book assesses the strengths and weaknesses of contemporary liberalism as a system of thought and as a set of political practices.

Toguri named Royal Society fellow

PROFESSOR JAMES TOGURI OF THE DEPARTMENT OF Metallurgy & Materials Science has been named a fellow of the Royal Society of Canada. Professor Toguri, senior INCO/NSERC industrial research chair in chemical process metallurgy, has made significant contributions to the science of

extractive metallurgy. His research in metallurgical chemistry involves thermodynamic and kinetic studies of reactions between gases, liquid metals, molten oxides and sulphides. His pioneering work on the environmental aspects of gold processing was implemented by the Royal Canadian Mint within three years of initial experiments.

Mackay receives award of excellence

PROFESSOR ROSEMARY MACKAY OF THE DEPARTMENT OF Zoology will receive the 1995 Award of Excellence in Benthic Science from the North American Benthological Society. Benthic science is the study of the physical and chemical habitats found at the bottom of fresh-water bodies. Mackay is being honoured for her work as the founding editor in 1985 of the society's journal, the *Journal of the North American Benthological Society*. She has also been on the society's executive for the past 20 years. Mackay will receive the award at the society's annual meeting in Colorado next May.

IN BRIEF



Locked, stock and barrel

U OF T IS GETTING TOUGH WITH PEOPLE WHO PARK THEIR BIKES IN prohibited areas. Bikes found in corridors, foyers, stairways and access ramps will be tagged with a reminder that they are parked illegally. On Sept. 19, illegally parked bikes will be double locked with a security device. The owner will have to transport it to the campus police office at 581 Spadina Ave. to have the device removed.

Seidelman named hospital director

PROFESSOR BILL SEIDELMAN OF THE DEPARTMENT OF FAMILY & Community Medicine and Wellesley Hospital, has been appointed medical director of the hospital's HIV Ambulatory/Primary Care Program. The posting and his U of T appointment took effect July 1. Seidelman, an expert in community-based primary care, will be based at the new Wellesley Health Centre, scheduled to open this fall. The centre will incorporate the hospital's existing family practice unit and other community-oriented programs and services. A native of Vancouver, Seidelman has a degree in medicine from UBC. He comes to U of T and the Wellesley from McMaster University where he held appointments in the Department of Family Medicine and the Family Practice Unit of the Hamilton General Hospital Division at the Hamilton Civic Hospital.

Kennedy heads mood disorders program

PROFESSOR SIDNEY KENNEDY HAS BEEN APPOINTED HEAD OF THE mood disorders programs at the Department of Psychiatry and the Clarke Institute of Psychiatry, effective Sept. 1. Currently head of the psychosomatic illnesses program in the psychiatry department and staff psychiatrist at the Toronto Hospital (General Division), Kennedy has a wide range of experience in mood and eating disorders. He is co-author of three recent books — *Clinical Advances in Monoamine Oxidase Inhibitor Therapy*, *University of Toronto Handbook of Eating Disorders and Biology of Feast and Famine*. Kennedy received his medical training in Ireland and psychiatric training in England and at U of T.

Academies act as student base

THE FACULTY OF MEDICINE HAS NAMED FOUR NEW MEDICAL ACADEMIES after important figures in its history. The academies have been created to provide official home bases for undergraduates assigned to U of T's teaching hospitals. Boyd Academy at Sunnybrook Health Science Centre has been named after William Boyd (1885-1979), an award-winning professor and author. FitzGerald Academy at St. Michael's and Wellesley Hospitals honours Dr. John FitzGerald (1882-1940), a microbiologist who became dean of the faculty. Peters Academy at Mount Sinai and Women's College Hospitals was named for Dr. Mildred Vera Peters (1911-1993), a professor of radiology. And Wightman Academy at The Toronto Hospital pays tribute to Dr. Keith Wightman (1914-1978), who served as chair of the Department of Medicine, physician-in-chief at Toronto General Hospital and associate dean of post-graduate medical education.

Merger Talks Extended

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Sedra said OISE's full integration into U of T is fundamental. "There will be economies of scale, there will be opportunities for interaction with the rest of the University which affiliation doesn't lend itself to."

If the institutions merged, he noted, there would likely be duplication of support staff and some at OISE might lose their jobs. But it is well known, he added, that staff cuts at OISE may happen anyway.

John Malcolm, president of U of T's staff association, said he believes that U of T jobs are not threatened. But any arrangement that would transfer University staff to what could technically be a new employer would have to be exam-

ined carefully. "We would want to make sure that UTSA members at the Faculty of Education would be given the opportunity to vote on what arrangement they would like to see for employee representation," he said. Conversely, if a deal saw OISE folded into U of T, UTSA would likely defend the right of unionized OISE staff to retain their collective agreements.

June King, president of the OISE Professional Staff Association, said support staff feel their jobs are very vulnerable and she plans to take their concerns to OISE's negotiating team. "We clearly have to meet again to talk about what's on the table," King said. "I think U of T would send out agreements to the Labour Relations

Board to determine whether they have any weight or not. There's a lot of scepticism at OISE that U of T wouldn't honour our collective agreements if they weren't required to by the labour board."

Sedra said the differences pose a real threat to the chances of an agreement but he believes one is still possible. However, there must be "a desire at OISE to make the merger come about or it won't happen. We're not going to force them to agree."

Barney Savage, special assistant to Cooke, said the province has no plans to intervene in the talks that began in the spring at the minister's request. Cooke proposed a merger to improve programs at both institutions and lower costs.

Formula Suggests Purchasing Services

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This model, the paper notes, would better reflect public expectations of universities in terms of "behaviour and performance." When buying services the government would consider the quality of programs, the efficiency and accountability of the institution and its management of equipment and facilities, among other factors.

In a June submission to OCUA chair Joy Cohnstede, President Robert Prichard and the heads of Guelph, McMaster, Ottawa, Queen's, Waterloo and Western note that funding post-secondary education on a "reward system" basis would be inappropriate and eventually erode the integrity of the universities.

"The perceived isolation of instructional and research activities, for instance, distorts the very idea of the learning process in a university setting," the submission notes. "We believe the current corridor system provides the essential ingredients of a sound funding formula" that supports university autonomy and encourages diversity.

Dan Lang, vice-provost and assistant vice-president (planning), noted there are many "flaws" in the OCUA paper. The paper gets "silly" when it suggests that a new formula would make it easier for universities to cut costs and become more effi-

cient. The paper recommends universities amalgamate departments and units to reduce administrative costs and promote interdisciplinary work; cut or merge programs; and reduce course offerings and duplication in graduate offerings, among other initiatives.

"The current formula allows universities to make those decisions and they have been making them," Lang said. "Tinkering with the formula isn't going to change that."

Cohnstede said in an interview that maintaining the funding formula as it stands is no longer a viable option although many universities believe the system works well. "The current funding formula assumes

there will be continuously new money from the public sector to fund it," she said. Both education minister Dave Cooke and deputy minister Charles Pascal have pointed out that due to reduced federal funding and a slower-than-expected economic recovery, this is not likely to happen.

Last November Cooke asked OCUA to review the way his ministry allocates nearly \$2 billion in annual operating grants to universities and to suggest changes. OCUA's discussion papers and the debate at hearings across the province this fall will form the basis of the council's final report to Cooke in December.

UNIVERSITY OF TORONTO

THE BULLETIN

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The Bulletin is printed on recycled paper. Material may be reprinted in whole or in part with appropriate credit to The Bulletin.

Published every two weeks by the Department of Public Affairs, 21 King's College Circle, 2nd floor, University of Toronto, Toronto, M5S 1A1.

EDITORIAL ENQUIRIES: 978-6981 • DISTRIBUTION ENQUIRIES: 978-4933 • ADVERTISING ENQUIRIES: 978-4933 • Display advertising space must be reserved two weeks before publication date. FAX: 978-7430.

Provost Imposes Conditions on O'Driscoll's Return

BY SUZANNE SOTO

ENGLISH PROFESSOR ROBERT O'Driscoll will teach at U of T this fall if he meets several conditions regarding his conduct on campus, the provost has decided.

In an interview Aug. 9 Adel Sedra said he has set out a number of terms O'Driscoll must abide by if he wants to return to the University following his May suspension from teaching duties. The terms have been mailed to O'Driscoll who, through his lawyer, has agreed to comply, Sedra said. It is expected he will teach three English courses.

An expert in Celtic studies at St. Michael's College, O'Driscoll could not be reached for comment. He has been on sabbatical since the summer of 1993.

Sedra said he established the terms after examining two reports that reviewed O'Driscoll's activities and behaviour over the past five years. The probes were launched last October after the administration received complaints against O'Driscoll — that his behaviour in the classroom had become increasingly erratic and that he had intimidated students and college staff.

Sedra would not elaborate on the conditions imposed on O'Driscoll

— some of which he must meet by Sept. 1 — because of concerns over his right to privacy on employment-related matters. However, the provost has determined that the complaints are legitimate. "His behaviour was found to be certainly not what is expected of a full professor at the University of Toronto and I outlined the details of that to him." Failure to adhere to the conditions could result in further sanctions, he added.

O'Driscoll, who has been a member of the teaching staff since 1966, has clashed with the administration a number of times. In 1986 he was removed from his position as director of the Celtic Studies Program at St. Michael's. In March 1990 he was temporarily relieved of teaching duties and hospitalized for psychiatric assessment. Last May Sedra suspended O'Driscoll pending the outcome of the reviews into his conduct.

Apart from his troubles at the University, O'Driscoll has been linked with Canadian white supremacist and neo-Nazi groups. He is the author of *The New World Order* and *The Throne of the Anti-Christ* and *The New World Order in North America: A Secret Military Counter-Intelligence Report*, both books have

been denounced as anti-Semitic by several Jewish organizations.

Sedra emphasized the terms he has imposed have no relation to O'Driscoll's research or writings. "We are not talking about issues of academic freedom but how Professor O'Driscoll behaves in the classroom, in the college and his dealings with staff and students."

Bernie Farber, national director of community relations with the Canadian Jewish Congress, said he is disappointed U of T did not seek the congress' views during the review into O'Driscoll's conduct. The University has not shared the probe's findings or disclosed the terms of O'Driscoll's return, leaving the congress to wonder about the wisdom of allowing him back in the classroom, Farber said. He plans to pursue the matter with the administration.

Professor Joseph Boyle, principal of St. Michael's and one of two administrators who reviewed O'Driscoll's conduct, said he is satisfied with Sedra's decision to allow O'Driscoll to return to the campus. "I think U of T is handling this in a most careful, judicious and proper way. We are taking the issue very seriously but we are also not over-reacting."

Pouring Buckets



ANDIE SCORJON

Terrence Eta, a civil engineering student and Science Outreach instructor, proves there's more than one way to cool off on a hot summer's day. In an experiment testing the strength of various roofing materials, he demonstrates that newspapers aren't the best bet. Science Outreach and Kids Summer 94 teamed up Aug. 7 to offer a free day of activities on front campus for youngsters in grades 5 to 10. Science Outreach, a program designed to introduce schoolchildren to science, wraps up this week.

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At Victoria University, which can accommodate up to 800 people per night, the lobby of Margaret Addison Hall on Charles St. resembles a busy hotel lobby most mornings. Waiting near the check-in desk are luggage carts and a rack stuffed with brochures about Toronto region attractions. The bustle will generate \$1.2 million.

"It's a crass, money-making operation," accommodation coordinator Jo-Anne Hanophy says, good naturedly but seriously. In the five years she's been at Vic, the summer accommodation program has grown.

"Without it our student fees during the school year would surely skyrocket," she says. And operating near full capacity all summer keeps people employed, including 37 dining hall staff, 22 housekeepers and 22 summer students.

Guests range from the predictable — students and alumni — to the unexpected. Youngsters like Nils and Kay attended the MWS Victoria Language Camp, a privately run program that uses Vic's facilities as a base. The camp draws young people from various countries who want a dose of English along with tourist attractions such as major league baseball, the CN Tower, Toronto Islands and museums.

Nils said he liked U of T's location, close to transit "and things to do." The food, he said, "was good, the rooms were nice." But he complained there was no air conditioning. Indeed, while rates are universally low — at Vic from \$42 to \$60 (with discounts for students and seniors) and at UC's Sir Daniel Wilson Residence from \$29 (single) — fancy amenities are few.

Halamati, newly arrived in Toronto, stayed three and a half weeks at UC's Whitney Hall in June and July

while she looked for an apartment. Whitney's rooms are basic — "a bed and a desk," Halamati said — but she was pleasantly surprised anyway.

"The residence doesn't pretend to be anything — it's kind of the opposite of a hotel where the front lobby looks gorgeous and then you get to your room and say, 'Wow, how long ago did they put this orange bedspread down?'"

Norma Coole, communications officer with U of T's Housing Service, says her office receives more than 300 summer residence inquiries by mail and telephone each year. But most of the residences and colleges do their own marketing;

there is no official U of T reservation office.

In drumming up business, residences and colleges have also discovered they have selling points besides price. For instance Massey College plays up its sophisticated architecture; a drawing of the complex is featured on its 1994 summer accommodation brochure. Loretto College, affiliated with St. Michael's College, offers an economical three-meals-a-day plan. New College hosts many conferences. Vic, says Hanophy, tries to offer something for everyone: wheelchair accessibility at Rowell Jackman Hall; conference rooms in historic Victoria College; and rooms for the night in ivy-covered Burwash Hall or the red-brick comfort of Annesley Hall.

There are fewer tourists at U of T's suburban campuses. But Erindale's housing office has no trouble filling its 153 undergraduate townhouses from May to September. Some are rented to conference participants, who come from as far away as Malaysia, and others to families needing interim accommodation as they wait to move into a new home.

Insurance Claims Will Be Honoured

U OF T EMPLOYEES ON LONG-term disability before Aug. 31, 1989, will continue to receive monthly benefits despite the recent downfall of Confederation Life Insurance Company.

The University has two long-term disability plans — the agreement with Confederation Life, known as the fully insured plan, ended Aug. 31, 1989. Eighty-five employees continue to receive benefits under that plan. Employees who began receiving long-term disability benefits after Sept. 1, 1989, are not affected by the insurance company's collapse.

An industry-run consumer protection fund, the Canadian Life & Health Insurance Compensation Corporation (CompCorp), will honour the failed insurer's claims. It guarantees up to \$2,000 a month. Benefits paid by CompCorp will be held to this amount until the financial viability of the Confederation Life plan has been determined or its business sold to another insurer.

However, 13 of the 85 individuals on the fully insured plan receive more than \$2,000 in monthly benefits. Steve Dyce, manager of compensation in the Human Resources Department, said U of T intends to supplement the benefit paid to those 13 individuals.

On Sept. 1, 1989, the University switched to a self-insured policy, known as administrative services

only. Confederation Life's involvement was "basically as a third-party administrator," Dyce said. That contract expires at the end of this month. Human resources reviewed U of T's relationship with Confederation Life this past spring and chose Sun Life of Canada to be the new providers of long-term disability benefits on an administrative services only basis, effective Sept. 1.

Break, Enters Increase

THE NUMBER OF BREAK, enter and thefts at U of T so far this year is nearly double the 1993 total, University police say.

Sixty such incidents, resulting in thousands of dollars in damage and loss of property, have been reported to date, said Sgt. Len Paris. There were 32 break, enter and thefts recorded in 1993. The main items stolen are computers and related equipment.

This past month alone, thieves removed over \$30,000 worth of computer components from two campus buildings. On the night of Aug. 10, the Faculty of Pharmacy at 19 Russell St. had \$26,000 in computers and parts stolen from a second-floor room.

A similar theft occurred on the night of July 27 at Simcoe Hall. A computer and monitor valued at \$4,600 were taken from a first-floor room.

Physicians to Receive Fixed Annual Incomes

A COMPENSATION PLAN in which doctors at the Hospital for Sick Children will receive a fixed annual income rather than fees for service has positive implications for U of T, the dean of medicine says.

In an interview Professor Arnold Aberman said one of the most important elements of the plan is it offers competitive remuneration. Specialists at U of T and Sick Children's Hospital have international reputations and other academic institutions, particularly in the US, are always trying to recruit them, he said.

"This agreement strengthens our competitive position with these doctors when it comes to them being recruited away from U of T."

The agreement was signed Aug. 11 by officials from the University, the hospital, the Ontario Medical Association and the Ministry of Health. It will provide 134 surgeons, anaesthetists, psychiatrists, ophthalmologists, otolaryngologists and critical care specialists with yearly incomes of approximately \$150,000 before deductions. The money will come from an \$18-million-a-year fund established by the Ontario Health Insurance Plan and based on fees-for-service billings in 1993-94.

Under the fees-for-service plan, doctors billed OHIP for every patient they saw and treated at the hospital. The system did not provide specific funding or time for teaching and research, said Claudia Anderson, the hospital's chief of public affairs.

Under the new plan physicians will receive a stable income with "protected time" for teaching and research, she noted.

This, Aberman said, will greatly benefit medical students and intern residents because the physicians may have more time to spend on instruction.

Sexual Assault Counsellor Hired

THE UNIVERSITY HAS HIRED ITS first sexual assault counsellor.

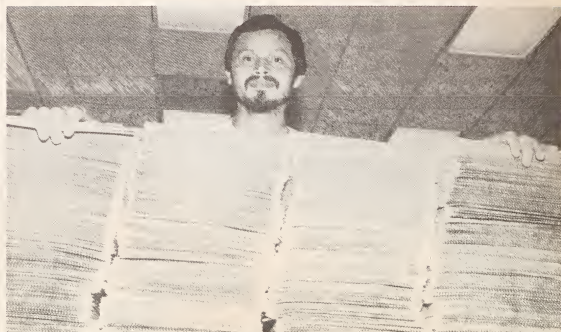
Patricia McGillicuddy joins the Counselling & Learning Skills Service Aug. 29. McGillicuddy's focus will be crisis counselling and educating the public about physical and sexual violence.

"We have hired one of the best people in the country," said Rose Marie Harrop, counsellor-therapist, in an interview. "It's really splendid and befits a first-class university."

McGillicuddy has extensive experience in court advocacy work and counselling victims of physical and sexual assault. Most recently she was a faculty member at Brock University where she taught a course entitled Assaulted Women and Children Counsellor/Advocate, dealing with issues such as rape, women and the law and advocacy skills.

The new position, to be funded by student fees, was approved by University Affairs Board and Governing Council in the spring.

A Loan among Thousands



Raul Mejia, a clerk in the admissions and awards office, peers out from behind a stack of student loan applications. So far this summer he has processed about 10,000. Since the recession began, more and more students have applied for financial assistance and applications are expected to top 15,000 this year, says David Sidebottom, financial aid manager at Admissions & Awards.

Black Students Win Scholarships

FOUR WINNERS OF THE BLACK Business & Professional Association scholarships will attend U of T this fall.

Three high school graduates have been awarded Harry Jerome scholarships and one U of T student has received the Dr. Anderson Abbott Award.

Faith Holder from Oakwood Collegiate, Lisa Morrison from Anderson Collegiate in Whitby and Ava Nelson from Earl Haig Secondary School have received a Harry Jerome scholarship. It was

established in 1986 as an incentive for black youths to excel in academics; winners receive \$2,000. Scholarship criteria includes academic achievement and contribution to the community.

Jerome was a world-class track athlete who represented Canada in three Olympic, three Commonwealth and two Pan-Am Games during the 1960s. He earned bachelor's and master's degrees in science from the University of Oregon.

"I'm really looking forward to coming to the U of T," said Lisa

Morrison, who plans to study science. "Chemistry is of great interest to me and I'm sure I'm going to find it stimulating."

Araba Sam, a 1994 UC graduate, won the Abbott award named after the first black graduate of U of T's Faculty of Medicine. The award was established by the University in 1992 for a black student who excels academically and who has made a contribution to the black community. Sam, who will receive \$4,000, will attend medical school in the fall.

ARTIFICIAL INTELLIGENCE

SERIOUS FUN

A playful robot will make life more enjoyable and challenging for physically disabled youngsters

BY ALIDA MINCHELLA

FOUR YEARS AGO JOHN TSOTSOS WAS WATCHING a television program about a rehabilitation centre in Vancouver. In it a child wearing a hockey helmet sat in a wheelchair behind a table of toys over which hung a robotic arm. The arm had colour-coded joints. The child's head was beside a paddle wheel manipulated to move the joints. By repeatedly hitting his head against the appropriately colored paddles, the child could "command" the arm to pick objects up. "It was painful to watch," says Tsotsos, a member of the artificial intelligence group in the computer science department. "And I thought, hey, we can do better than this."

Playbot, a robot that will give physically disabled children more independence, was launched by a team of researchers from U of T and York University in 1990. The development process has taken four years. Although the robot has been operated for experimental purposes and can do some of the jobs it was designed for, several aspects are still being refined.

Designed to consist of an arm, a head with two cameras for eyes and a flat, touch-sensitive video display controlled by computer, the robot carries out simple tasks. The touch pad has a few icons representing objects such as a ball or truck, symbols representing actions and a layout of the room. It can respond to commands such as Pick up ball. Put down here.

"Playbot has a grammar. With one finger the child can touch the icons and create play sentences. The computer takes the command and figures it out," Tsotsos says. "This is in contrast to



every other scheme where the child has to control every small movement of the robot."

Playbot's vision, one of its most innovative features, has the same range of capabilities as human eyes. They can move up and down, side to side and in towards the centre of the head and out. The eyes also rotate slightly, allowing depth perception that only humans and animals have. This makes it easier for the robot to navigate in three-dimensional space. "Creating vision is the hard

part," Tsotsos says. It requires researchers to store numerous models of objects in the computer's memory; the computer must then be able to recognize the actual model from any angle of vision.

When fully functional, Playbot will interpret an icon, determine where the object might be found in the room, check these possibilities and then figure out how to execute the command. It will be especially effective for children who cannot communicate verbally, such as autistic children, for the visually impaired and those limited in movement.

So far, the robot can recognize a small set of toys and a select group of action verbs. The next step for researchers is to perfect and bring together all the robot's functions and to build a larger vocabulary of objects and actions.

One of the snags the group has encountered is funding resistance from granting bodies. Although the granting agencies are generally excited about the technology, the application of the research hasn't piqued their interest.

"I'm really annoyed by the fact that although we're doing world-class research from every perspective, nobody wants to fund it. When I submit grant proposals, they say, 'We want to fund your work, but don't do this. Do something else,'" says Tsotsos.

If all else fails he plans to seek money in the US or Germany, countries that have shown interest in the project. "I strongly believe in this and I've turned into something of a marketer to find funding for it."

DELVING DEEP

A U of T team will analyze radioactivity in Arctic waters

BY SUZANNE SOTO

AS A RESULT OF A POWERFUL NUCLEAR PLANT EXPLOSION in 1957, an area surrounding the western Russian city of Chelyabinsk is one of the most radioactively polluted sites in the world today.

Linas Kilius, a nuclear physicist at U of T's IsoTrace Laboratory, says the blast at the Mayak plant released millions of radioactive units into the area's lakes and rivers. Scientists believe that some of this material made its way to the Arctic Ocean where traces can now be found.

The explosion is just one of many contributors to radioactivity in the Arctic. For decades, Kilius says, many countries used waterways that lead directly to the Arctic as nuclear waste dumping grounds. "There are a number of reprocessing facilities that take nuclear weapons' material, remove the most active components and, after some time, discharge the remainder into the ocean." Nuclear plants in England and France, particularly, have been dumping "prodigious" amounts of such substances as iodine-129, caesium-137 and tritium into various water systems.

Kilius is interested in the amount and type of radioactive material in the Arctic Ocean, its impact there and on connecting water systems and its possible effects on humans. He hopes to have answers to some of these questions later this year when, under his leadership, the lab will analyze samples of Arctic water.

The project will be part of the Canada/US 1994 Arctic Ocean Section, an expedition sponsored by the federal Department of Fisheries & Oceans, the US Office of Naval Research and others. In July the two countries sent ice-breaking ships — the US Polar Sea and the CSS Louis St. Laurent — on a 6,600 kilometre, 60-day trip across the Canadian and Eurasian portions of the Arctic Ocean.

The primary purpose, Kilius says, is to undertake a comprehensive study of the ocean to learn more about global climate changes. A team of about 70 oceanographers, physicists, biologists and atmospheric scientists is involved. The earth's climate, he explains, is critically affected by the movement of ocean currents. To date no one has looked at the impact of Arctic currents in detail — Transarctic 94, as the project is known, hopes to provide useful data. As part of the study,



researchers will collect water for nuclear isotope tracer experiments.

Kathy Ellis, a researcher at the Bedford Institute of Oceanography in Dartmouth, will collect the water samples. Sixty samples gathered in earlier expeditions to the Kara and Barants Seas will also be analyzed. These waterways, Kilius says, surround the island of Novaya Zemlya where the Russians have carried out nuclear weapons testing programs. The area also contains discarded nuclear reactors full of waste material. The steel and concrete containers are tightly sealed at the bottom of the ocean but scientists want to know if any leakage has occurred.

At the lab Kilius will be looking for a specific type of radioactive gas — iodine-129. Found rarely in nature, iodine-129 is a common by-product of fission and therefore a good

indicator of radioactivity. Its half-life is about 16 million years, which means it is not as active or harmful to humans as short-lived radioactive material. By contrast iodine-131, an isotope released by the 1986 Chernobyl power station explosion, has a half-life of eight days.

Due in part to its longer life, iodine-129 has been difficult to detect. Hundreds and even thousands of litres of contaminated water were required for testing. In the late 1980s, however, the U of T lab developed a new way of isotope detection using accelerated mass spectrometry.

There are two primary ways of measuring radioactive isotopes, Kilius explains — one is by counting the particles emitted by the radioactive atoms as they decay; the other, by counting the radioactive atoms directly. Using an accelerator with a mass spectrometer, researchers can count atoms without waiting for them to decay, which greatly speeds up the detection process for long-lived radioactivity. The technology also makes it possible to find traces of radioactive material in as little as 100 millilitres of water. Kilius expects to receive the water samples in October and to complete the analysis by December. "There is going to be a lot of interest in these samples," he says.

Both the scientific community and the nuclear industry, he notes, are eagerly awaiting the results. They want to know the levels of radioactive material in the nuclear waste disposal area to see if they indicate leakage. The information may also be useful to determine the danger of a reactor rupturing.

"The third thing we are trying to find out is: what are the pathways into the food chain? We want to know what the radio isotopes' pathway was from the water system to the vegetation, to the plants, the animals and ultimately man." These are critical, he says, to determine their risk to humans.

"We have always thought of the Arctic as a clean, very pristine place, but it is not," Kilius adds, reflectively. "Man has done a lot to change that. We need to determine for certain if there is potential harm. This is a great opportunity for Canada to make very crucial measurements in this area. With the techniques we have developed here, Canada will be able to remain a leader in radio isotope tracer measurement in the Arctic and ocean environments."

CAL GELNER

Computer Guidelines Stress Responsibility, Not Censorship

BY KARINA DAHLIN

FILES AND INFORMATION stored on University computers belong to the institution and are subject to the same inspection as telephones, filing cabinets and desks, says a new set of guidelines.

Inspections, other than those done

to verify physical assets, are unusual and "take place only where there is reason to suspect an infraction of the rules," say the guidelines. Appropriate Use of Information Technology at the University of Toronto. Authorization is needed from the head of the department or division.

However, if people have installed security software that gives no one but themselves access to their files, they must open them on request, said Eugene Scianias, acting director of network operations at U of T Computing & Communications. If they refuse to cooperate, a scenario not addressed by the guidelines, they probably do so "at their peril," he said.

All users of information technology should know that people without permission may be able to monitor network transmissions, the document says. "It is also possible, for example, to create and send counterfeit mail under the name of another person and in a manner which makes it appear the message has emanated from the named user's desktop. It is suggested, therefore, that confidential information not be sent electronically unless the user is operating on a known secure network."

People who use the University's fax machines, computers, software, scanners, copiers, telephones, video equipment or other communications technology must follow the rules that govern other activities on campus. Those rules — and the penalties — are stipulated by the Code of Student Conduct, the Code of Behaviour for Academic Matters, the Ontario Human Rights Code, the Criminal Code of Canada and other regulations.

Ultimately every user is respon-

sible for the material he or she chooses to access, send or display, say the guidelines. This includes situations where people access the discussion groups "alt.fan.holmoka" (which breaches the publication ban imposed on the court case of Karla Homolka who was involved in the slaying of two young women) and "alt.sex." The University has blocked receipt of these categories, in both cases because it is concerned about the legal ramifications of providing access, Scianias said.

Some call this censorship, he added, but the University is not preventing people from gaining access to the material, "just making it less easy." UTCC will not act as a censor but will, according to the

guidelines, "make every practical attempt to comply with both the spirit and the substance of the law."

The document was written for two reasons, explained an April memorandum from Provost Adel Sedra and David Sadlier, former vice-president (computing and communications), to principals and deans. For one, the provincial government has advised universities to address the problems associated with "objectionable material" on campus computer networks. In addition, a growing number of University members request advice and assistance with the new technology. The guidelines are included in a reference manual published by UTCC.

Appropriate vs. Inappropriate Use

THE DOCUMENT, APPROPRIATE USE OF INFORMATION TECHNOLOGY at the University of Toronto, describes inappropriate use of information technology:

- unauthorized access, alteration, destruction, removal and/or disclosure of data, information, equipment, software or systems
 - deliberate over-extension of the resources of a system or interference with the processing of a system
 - disclosure of confidential passwords and/or access devices or information for accounts, equipment and telephone voice mail
 - use of University facilities and resources for commercial purposes
 - propagation of hate literature
 - harassment, including sexual harassment
 - theft of resources
 - malicious or unethical use
 - use that violates provincial or federal law.
- Appropriate use includes:
- respect for the rights and property of others
 - consideration of other persons using shared systems, equipment and facilities
 - confidentiality in use of passwords
 - a presumption of the right to privacy
 - use of tools for the purpose for which they are intended
 - adherence to rules governing use of accounts, equipment, networks or other facilities, whether the rules are established by the University or by the organizations providing these tools to the University
 - adherence to etiquette and culture as defined in systems that are used.

Electronic Mail Delivery among Campuses Speeds Up

ELECTRONIC MAIL MESSAGES Among the suburban and St. George campuses are now being transmitted faster.

Earlier this summer U of T Computing & Communications increased the conductivity of the system, allowing it to transmit several hundred screenfuls of material at a second, up from a capacity of about three screens a second. E-mail has been available on all campuses for years, said Eugene Scianias, acting director of net-

work operations at UTCC.

Meanwhile UTCC is developing an institutional software package. Known as UTOIRMAIL, the package is ready for IBM-PC machines now and will be available for Macintosh and Unix machines later. Access to e-mail should be easier, said Scianias, because of a standardized system of addresses. Also, when both sender and recipient use UTOIRMAIL, computer files can be attached to e-mail messages.



NOTICE TO ALL EMPLOYEES ENROLLED IN THE UNIVERSITY'S LONG TERM DISABILITY PLAN

There has been a great deal of publicity recently regarding financial difficulties of Confederation Life, who currently administer the University of Toronto's self-insuring Long-Term Disability Plan.

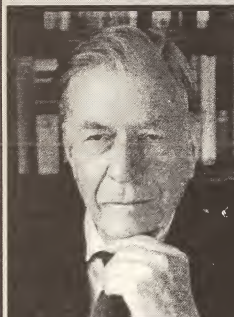
This past spring, the University decided to request proposals for providing these services from a number of other large insurance companies. In July, after careful review, the University selected Sun Life of Canada to be the new administrator of our Long-Term Disability benefits on a self-insured basis, effective September 1, 1994.

All employees currently enrolled in this plan will remain covered for the same benefit provisions as before, and at the same premium rate, administered by Sun Life. We sympathize with Confederation Life and its employees in their current difficulties but can assure all employees at the University of Toronto that they will not be affected by these difficulties.

Michael G. Finlayson
Vice-President, Human Resources

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LETTERS



SPEAKING AND LISTENING

I see in Bits & Pieces that "the Africans are learning to speak up and the whites are learning to listen" (Whites are learning to listen, June 13).

This implies that "Africans" means "black Africans" and that whites born there aren't African. Compare "Mohawks are speaking and Canadians (or 'anglophones,' say) are listening."

RANDY McLEOD
DEPARTMENT OF ENGLISH

including herself, who already do so.

GLENN LONEY
UNIVERSITY COLLEGE

UNEQUAL COVERAGE

The April 12 conference, sponsored by the U of T Faculty Association, was extensively covered by *The Bulletin*, which devoted two full pages to papers from several speakers (Academic Freedom & Political Correctness, April 25). But the May 7 conference, sponsored by the Society for Academic Freedom & Scholarship, on University in Jeopardy: Canadian Concerns received relatively minor coverage — a small extract from a speech in the Bits & Pieces section (Free us from outrageous foolishness, May 30).

The *Bulletin* had two reasons for not covering the SAFS talk as fully as the UTFA conference. First, I was told, UTFA represents all faculty at the University; second, the paper could not afford to send a reporter.

I submit that SAFS' concern for freedom of speech for all members of the University is of greater general interest than the "guild" academic freedom of UTFA that is mainly concerned with issues related to faculty members' job security. With respect to the second reason, perhaps a bit of the annual budget for the University's eight equity officers might be used to help *The Bulletin* pay for the cost of covering events that are held on Saturdays.

JOHN FUREDY
PRESIDENT, SAFS

LETTERS DEADLINES

AUGUST 26 FOR SEPTEMBER 6
SEPTEMBER 9 FOR SEPTEMBER 19
SEPTEMBER 23 FOR OCTOBER 3
OCTOBER 14 FOR OCTOBER 24

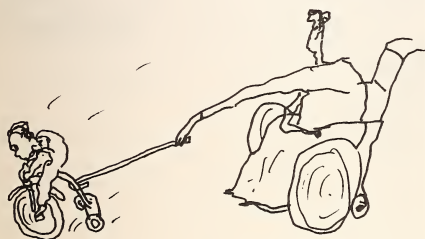
Letters should be submitted on a computer disk in WordPerfect or plain text format, or on paper, typed and double spaced. Please include a telephone number and, if possible, a fax number. Disks will be returned if an address is provided.



LETTERS TO THE EDITOR THE VERY PLACE TO AIR YOUR THOUGHTS

The Bulletin welcomes letters from its readers. Please limit signatures to three and send them, fax them, deliver them in person, to: Jane Stirling, Editor, *The Bulletin*, 21 King's College Circle, 2nd floor. Fax, 978-7430; e-mail, janc@dur.utoronto.ca.

FALLOUT, NEW MEANINGS AND PEAK EXPERIENCES



OLD AND YOUNG: BEWARE OF CONFLICT

The 12th Annual Wilson Abernethy Distinguished Lecture, sponsored by the Centre for Studies of Aging, was given on May 4 by Fay Lomax Cook, a professor of human development and social policy at Northwestern University in Evanston, Illinois. The title of her lecture was *Public Opinion and Elite Attitudes about the Elderly*.

Much of the concern about intergenerational inequity in the US is misguided. Yes, children are the most likely age group to live in poor families. But the cause for this has nothing to do with the level of benefits the elderly receive. It has to do with lack of willingness to pay higher benefits to the poor children's able-bodied parents because policy makes fear — wrongly, some would argue — that higher benefits would reduce the parents' incentive to find jobs. If benefits to the elderly were cut today, there is little reason to think that more funds would be directed to poor children and their families.

The view [also] exists that young adults do not support programs for the old. This view is based on the finding that young adults do not think Social Security will be there for them when they retire. It is true that young people are worried about the long-term viability of Social Security. But it does not follow that they then do not support current programs for the old. They do, as shown by my research and that of others. The problem, then, is not their lack of support for programs for the old. Rather, it is the misinformation they have about the long-term viability of Social Security. In fact, although US citizens have been offered a steady diet of rhetoric and fear mongering about Social Security, the fact is that Social Security revenues exceed expenditures and are projected to do so for the next three decades until 2025 when a 1.5 percentage point increase in taxes on employees and employers will correct the imbalance.

What we need is the dissemination of well-researched information about the high levels of support that exist for the old and programs for them. Articles with catchy titles denigrating the old may sell newspapers, but they do not well serve the public discourse. The public and policy-makers may get caught up in a spiral of rhetoric that they think others believe and thus feel alone in their supportive beliefs and thus retreat to silence — a phenomenon that has been labelled the "spiral of silence." It is crucial to the fate of the elderly and to informed policy making that we do not let that happen. The threats to support for the old that exist

have not yet resulted in lowered support. But they remain real threats, nonetheless.

THE MEANING OF QUEER

On April 18 Joanne Savona of the Department of French at Trinity College spoke to the lesbian and gay academic forum on the topic, *A Feminist View of Queer Studies*.

Queer seems to have become a fashionable term which can sometimes mean gay, sometimes lesbian and gay, sometimes even simply lesbian and, according to Judith Butler in *Bodies That Matter*, it now constitutes a rallying point for the bisexuals and straights who want to express "an affiliation with anti-homophobic politics." Queer also made its official appearance in the academic institution with a special issue of *Differences*, entitled *Queer Theory*, followed by a University of Toronto conference on lesbian and gay studies named *Queer Sites* in 1993. It may still be too early to grasp the full impact of the political agenda, forms of representation and sexual aspirations underlying the notion of queer...

Not unlike the word gay, the term queer was first a derogatory word applied mainly to men. Queer used to denote pathological strangeness and shameful marginality. It has now assumed positive connotations: pride, creativity, originality and resistance to any homophobic assumptions. In the academic world, it has almost become synonymous with high-brow or post-modern, and academics who call themselves queer have come to form a sort of elitist group within the field of lesbian and gay studies. It seems that if a great many North American lesbians now call themselves queer, it is because they want to affirm their political and cultural solidarity with gay men. This new alliance symbolized by the successful reapportioning of a single word marks a common desire to subsume differences but also perhaps to ignore them or file them away.

INTOLERANCE — MORE FALLOUT FROM CHERNOBYL

From *Gene Fund to Genocide: Semiotics of Otherness and Exclusion* was the title of a lecture delivered on March 31 by Professor Anna Makolkin, a resident fellow at the Centre for Russian & East European Studies.

The Chernobyl disaster was another occasion for productive myth making. Despite the acknowledged impact of Chernobyl radioactivity in Great Britain, France, Italy and

Finland (countries that openly acknowledged it) some western journalists presented it to the public as a unique product of the Communist faulty industry, a unique local event. Some Ukrainian journalists used it as an opportunity to point out the danger of collaboration with Moscow and some even presented the disaster as a deliberate "Moscow plot" matching the Hitler plot against the Jews. Some used it as an opportunity to defend separation as a health measure. To be with Moscow meant to have another Chernobyl and be completely physically destroyed. The semiotic strategy worked as follows:

Life
away from Moscow
radioactive free
genetically safe

Death
with Moscow
endangered
genetically unsafe

The Chernobyl disaster evoked the intense popular medical discourse about the potential danger posed by radiation to the genetic pool of the residents close to Chernobyl. The precise knowledge was appropriated by the popular myth-makers who acquired a new myth-making territory. The damage to the DNA of the human cell was replaced by the intended damage to the restricted pool of DNA, namely the ethnic Ukrainians and the myth of the genofond (genetic fund) was conceived....

The post-Chernobyl meditations gave the image of a nation as an endangered species. The Chernobyl danger contributed to the anxiety of an undefined entity which seeks its own identity. In the absence of clear identity the mythical constructs are used and abused and mask a dangerous, familiar state of intolerance.

MUSICAL MOMENTS

ECSTATICALLY LOST IN TIME AND SPACE

June 12-17 the Faculty of Music sponsored an international symposium on the philosophy of music education. Among the speakers was Bennett Reimer of the School of Music at Northwestern University in Illinois who spoke on *Experience of Profundity in Music*.

Abraham Maslow (1908-1970) was interested in the fact that experiences traditionally associated with ecstatic religion or mysticism were in fact commonly reported in association with a wide variety of stimuli or situations having little or nothing to do with religious settings, such as "experiences of the aesthetic, of the creative, of love, of sex, of insight, etc." He coined the term "peak-experiences" for such occurrences, which he described as moments of highest happiness and fulfillment. He spent many years collecting verbal reports of such experiences. Experiences of music, and experiences of sex, it turned out, were the most frequent stimuli for peak-experiences, as we have often heard. (I'm a little disappointed that we have not yet worked out the implications of this for the music curriculum in public schools.)

People in peak-experiences achieve a level of concentration — a total kind of perceiving, listening, and feeling — which does not normally occur. Such immersion in the quality of the experience itself is felt as self-validating to such a degree that it justifies not only itself but even living itself. "Peak-experiences," says Maslow, "can make life worthwhile by their occasional occurrence." In such occurrences one loses a sense of time and space as normally experienced and feels the now as connected to universality and eternity, in which the world becomes meaningful and accepted and sacred, the dichotomies, polarities and conflicts of life being felt as transcended or resolved. Respondents use words such as "wonder, awe, reverence, humility, surrender, and even worship before the greatness of the experience."

I want to stress that Maslow's data are clear that the effects of profound experiences, including profound experiences of music, are long-lasting on those that have them. They can change such persons' sense of themselves and of their place in the world, positively and pervasively. Education, Maslow believed, must focus on providing experiences at the level of the profound, for such experiences are the highest — the most intrinsically human — available to us.

HYMNS AND MA

At the same conference Anthony Palmer of the University of Hawaii at Manoa spoke on *A Philosophy of World Music in Music Education*.

Time is a fundamental experience of the human family. Yet our concepts of time vary widely according to our location on the globe and our cosmogony as it has built up over millennia.

Compare two examples. Luther's hymns and Schütz's metrical settings of the psalms were the models for Protestant hymn composition. These hymns were not simply metrical but four-square in their accent and stress. Their comparative simplicity and homophonic movement were well suited to a congregation with meager education and religious modesty. These hymns also, in their singing, induce the body to be stolid in its stance and upright in its convictions.

By contrast the same hymn that developed in the Protestant churches became the basis for music of African-American churches in the American south during the 18th and 19th centuries. Musical roots taken from Africa, composed along very different time structures and conceptualizations, strongly influenced African-American music, wherever it was sung.

Consider another response to time as mirrored in the music. The Japanese term, *ma*, means an "interval of space-time" or "the stillness and emptiness just before or after a unit of performance." *Ma* became a major component of Japanese aesthetics centuries ago. How this plays out in various traditional arts is something to be learned at the foot of a teacher by imitation, for *ma* is felt, not counted. Listen to any solo shakuhachi piece and the silences between tones take on a dimension of importance equal to the sounds. The Japanese concept of time is another way of entering into a different realm of human experience.

EVENTS



SEMINARS

Possibilities and Limitations of Enterprise Modelling.

MONDAY, AUGUST 22
Peter Bernus, Griffith University,
Queensland. 211 Rosebrugh Building.
1 p.m. *Industrial Engineering*

A Framework to Define a Generic Enterprise (Reference Architecture and Methodology).
MONDAY, AUGUST 22

Peter Bernus, Griffith University,

Queensland. 211 Rosebrugh Building.
1 p.m. *Industrial Engineering*



* EXHIBITIONS

JUSTINA M. BARNICKE GALLERY HART HOUSE

TO AUGUST 25
Homage to the Sea.
Andrea Blasz, paintings. East Gallery.

Anne Morrow Wysmyk.
Sculpture. West Gallery. Gallery hours:
Monday to Friday, 11 a.m. to 6 p.m.;
Saturday and Sunday, 1 to 4 p.m.

THOMAS FISHER RARE BOOK LIBRARY

Ownership of Books: An Investigation into Provenance.

TO OCTOBER 28
An exploration of provenance through a display of royal and armorial bindings, bookplates and inscriptions. Hours:
Monday to Friday, 9 a.m. to 5 p.m.



MISCELLANY

Scarborough Campus Tours.

TUESDAY, AUGUST 23 AND
FRIDAY, AUGUST 26
Visit areas of the campus including resi-

dences, recreations centre and library.
Student Village Centre, Scarborough
College. 1 p.m.

Information Evening.

MONDAY, AUGUST 29
Representatives from the School of Continuing Studies and several professional institutes and associations will inform and advise about their programs and designations. Guest speaker: Stephen van Beck, specialist in personal development and organization change, on Esteem, Productivity and Self-Management Issues. 4-400 Ontario Institute for Studies in Education, 252 Bloor St. W. 6 to 7:25 p.m. 30CS

Campus Walking Tours.

TO AUGUST 31
Hour-long tours to the downtown campus conducted by student guides. Tours available in English, French, Portuguese and Hindi. Map Room, Hart House. 10:30



DEADLINES

Please note that information for Events listings must be received in writing at The Bulletin offices, 21 King's College Circle, 2nd floor, by the following times:

Issue of September 6, for events taking place Sept. 6 to 19: MONDAY, AUGUST 22.

Issue of September 19, for events taking place Sept. 19 to Oct. 3: TUESDAY, SEPTEMBER 6.

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ACCOMMODATION RENTALS AVAILABLE —METRO & AREA—

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Dramatically reduced rent or free basement apartment (normal rent \$575 p.c.m.) in exchange for fast word processing by non-smoking, excellent spelling, senior or post-doc student from September 1. Cosy, self-contained, washer/dryer, fully or partially furnished, own entrance, in professor's house. 964-7270.

House, central, 13 years old, immaculate, unfurnished, three bedrooms, back-split, huge family room, eat-in kitchen, three bathrooms, laundry room, central air, new patio, garden, garage. Recreational facilities, schools, TTC, shopping nearby. Ideal for family, prefer non-smokers, no pets. \$1,700/month + utilities. (416) 921-8441.

Rebuilt Victorian house. Five-minute walk to U of T, TGH, HSC. Furnished or unfurnished junior one-bedroom apartment, \$750/month, utilities included, August. One-year lease. Call 595-0026.

Admiral Road. Furnished, spacious, 1 plus bedroom, lower-level apartment. Own entrance, fireplace, dining area, quiet, close to U of T, parking available, 4 appliances. \$835/3 months inclusive. September 1. 822-4015 days.

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Executive condo for rent. 1-bedroom, furnished. Excellent location to University (5-minute walk), Bay & St. Joseph. Recreational facilities: gym, sauna, pool, whirlpool, table tennis. Parking available. Very reasonable. Contact Margaret, day: 591-5547; evening: 846-0635.

2-bedroom apartment, very central, subway access, 1 master bedroom with 2 queen-size beds, 1 small bedroom with pull-out bed of white leather and white cane furniture. Great stereo, 28" TV, VCR & CDs. Indoor pool and patio — balcony with appropriate furniture, flowers, etc. 3-6 month lease. Suitable for professor or faculty member. Phone: (416) 487-2580.

Bloor/Spadina. Quiet, bright, spacious, 1-person basement flat. Newly renovated, 500 sq. ft., broadband. Private entrance, non-smoking, no pets. 6-month lease, \$700/month inclusive, immediate. Mrs. Probyn, 922-0297.

Open, airy, 3-bedroom, 2-story house with fireplace, garage, parking, 4 blocks from campus, 188 Borden Street (Harbord/Bathurst area), \$1,350/month, POU. Available Sept. 1/94. Contact in Toronto: Elizabeth Palmer or Luc, 531-7106, or Chris Brooks, (709) 576-0359 collect.

Two-minute walk to St. George campus. Sunny, nicely furnished, 2-bedroom, 2-bath apartment to sublet for 1- or 2-year term. Linens, dishes, balcony — some appliances, \$1,200 includes hydro, cable, etc. 532-4334.

House for faculty members/grad students beginning October, \$1,100/month. Comfortable, 2-story, 4-bedroom home in quiet suburbia. Finished basement with fireplace, bath, powder room. Garage, 1,700 sq. ft., Dr. Grande, 497-1429, or leave message; or Robert, 494-8130.

Faculty exclusive house, 8- to 12-month lease. Furnished 4-bedroom, 4-bathroom, air-conditioned. Private backyard. Bus to subway. Halfway between University of Toronto and York University. Non-smoking, no pets. Phone (416) 221-3175.

College/Overcourt. Bright, spacious studio apartment in basement of lovely Victorian home. High ceilings, separate entrance, laundry, steps to College street and West-End YMCA. Would suit quiet non-smoker. \$550 inclusive. Available immediately. Call 535-2678.

Short- or long-term apartment. Annex. One bedroom, fully equipped, immaculate, quiet, smoker & pet-free, 5 appliances, parking, \$300 per week. Walk to U of T. Available September 3. Phone (416) 967-6474.

One-bedroom apartment, furnished and equipped or unfurnished. Spacious and deck overlooking attractive garden; exposed brick wall; fireplace; laundry facilities; cable plus TV service. Ground floor of private house; walk to St. George campus, subway, shops. Length of lease negotiable. Suit one couple. \$950 per month plus hydro. (416) 962-0657.

Case Loma area. 3-bedroom Victorian house, 2 bathrooms, finished basement, appliances, parking, small fenced yard, pets welcome. 6-minute walk to Dupont subway station, minutes to U of T. \$1,250/month + utilities. Available immediately. (416) 535-9082.

1994/95 academic year. Prof's residence: 3-story home, loaded with character, King/Dufferin area. Large rooms, 4 bedrooms, library, sun-room, beautiful formal dining-room, all appliances, parking, furnished/unfurnished. Call evenings 536-2056.

Rosedale. Entire third floor, separate suite entrance, attractive furnished apartment, bedroom, den, living-room, all appliances, cable, parking available. \$950 inclusive. September 1 occupancy. Tel. 961-1837.

Victorian carriage house, Cabbagetown. Furnished, 1 bedroom, den, air, parking and water included. Electricity and gas extra. Garden, patio. October 1/94 — September 30/95. \$1,500 per month. C. Rankin, 960-1654 (H), 973-6135 (B).

West Annex (Cimlin/Bloor). Beautiful, very spacious one-bedroom apartment on 2 levels. Hardwood floors, dining-room, living-room, eat-in kitchen with gleaming pine floor and top-of-the-line stove. Deck, garden, laundry room. Six minutes walk to Christie subway. A joy to come home to October 1. \$1,090 inclusive. May, 534-1923.

RENTALS REQUIRED

Housing Service. Now accepting September 1 advertisements of private and shared accommodation for students of U of T, Ryerson, George Brown and OCA. If you wish to list a reasonably priced, furnished or unfurnished, unit for rent in the vicinity of one of these schools, call 978-0405 for advertisement rates and further information.

University of Illinois professor, with wife and two well-behaved children, working at Atmospheric Environment Service in Downsview on sabbatical leave, is seeking to rent a house, condominium or townhouse in either the area bordered by Dufferin, Steeles, Bathurst, Wilson, or along Bayview between Steeles/Lawrence, beginning January 1995 to end of July 1995. Please contact Dr. Landsberger at (217) 351-8383 home or (217) 333-2486 work. Will accept long-distance telephone charges.

15 Sept. — 15 Oct. only. Visiting prof requires furnished accommodation close to campus: 2/3 bedrooms, House or apartment. Please contact Gavin Smith at 978-8127 or 535-6850.

ACCOMMODATION SHARED

Danforth and Broadview. Fully renovated house to share. Ideal for visiting professor or doctoral student. TTC 15 minutes to U of T. Entire third floor — 2 furnished rooms, skylights, minibar, air cond., \$500. Also 9x12 furnished bedroom/office with private deck over backyard, \$350. All appliances, fireplace, yard. Street parking. Non-smoking, pet-free, organized, quiet. Includes maid/utilities. Call Ken Shepard, Ph.D. 463-0423.

Annex west. Mature person to share quiet 5-bedroom house with two others. Own bedroom & study. Laundry, hardwood floors, garden, grand piano. Non-smoker, no pets. Available now. \$450 utilities included. 537-7257.

St. George/Bloor. Fully furnished 2-bedroom condo with 2 baths, patio garden. Male University professor will share accommodation with non-smoking male professor or visiting scholar. September 1994 to April 1995, \$550 monthly inclusive. (416) 921-1672.

Within walking distance of U of T. Large, furnished studio in private house, for residential use. Shared use of kitchen and/or bedroom includes laundry facilities. Installation of own phone line required. Suitable for female visiting professor or doctoral student. Non-smoker preferred. Available September 1. \$500 monthly. Phone 922-2677.

Downtown, King & Crawford (west of Bathurst). Bright, new, two-bedroom townhouse, en suite bathroom. Female non-smoker, no parking, \$400/month. (416) 862-3566.

Compatible housemate required to share three-bedroom Tudor-style house at Eglington/Allen Road (5-minute walk to Eglinton W. subway) with two humans and one cat. We are peaceful, employed, educated intellectuals, 25-35, single and non-smoking, 2 bedrooms, parking, \$500 plus utilities. Sylvia, 783-8406.

September — December 1994. Room in 2-bedroom house located near Cowell subway station. \$500 + your share of gas, hydro & phone. Must be very clean, non-smoker, single. Contact Chris, 699-0591.

2 small furnished rooms. Share house. 20 minutes from U of T at Victoria Park subway. Large backyard, deck, driveway parking, laundry facilities. Quiet area. Close to parks. Non-smoker preferred. \$450/month utilities included. Short-term available. Fred Pentney, tel/fax: 752-2666.

BED & BREAKFAST

Award-winning home. Immaculate, smoke- and pet-free. Quiet nooks and crannies for reading and relaxing. Healthy breakfasts and we cater to diets. Walk to U of T. ROM. Parking, \$80 daily for two, \$65 for one. (416) 967-6474.

HOUSES & PROPERTIES FOR SALE

Condo, Jarvis & Carlton. Northwest corner, 1,823 sq. ft. Split 2-bedroom, 2 full baths, whirlpool, separate dining/entr., balcony. Amenities include 24-hr security, squash, gym, pool, billiards, conference/party rooms. Great value at \$254,500. Janni de Savoye Sams, 487-5131.

MISCELLANY

PERSONAL COUNSELLING in a caring, confidential environment. U of T staff extended health care benefits provide excellent coverage. Dr. Ellen Greenberg, Registered Psychologist. The Medical Arts Building, 170 St. George Street, 961-3683.

ACCENT NEED ADJUSTMENT? Communications enhancement courses in speaking and writing for English as Second Language Speakers with good language skills. Groups of 6-8. Over 2,500 satisfied graduates. Now in its 8th year. Gandy Associates, 533-1933.

Psychologist providing individual, group and couple therapy. Personal and relationship issues. U of T extended health plan covers psychological services. For a consultation call Dr. Heather A. White, 535-9432, 140 Albany Ave. (Bathurst/Bloor).

INDIVIDUAL & COUPLE THERAPY. Extended health benefits provide full coverage for U of T staff. Dr. Gale Bidwell, Registered Psychologist, 114 Maitland Street (near Wellesley and Jarvis), 972-6789.

XEROX. Virtually new (91,000 copies). Automatically copies manuscripts both sides and staples. Selects paper size, enlarges, reduces. Electronic audition. Up to 1,800 accounts. Always under Xerox service contract. 70% off purchase price. 965-4953.

Kavanagh presents a Second Day Rosh Hashanah Meditative and Healing Service with Rabbi Jerry Steinberg. Tickets \$30, available at Bloor JCC. For information about services, Jewish Book, Jewish Soul courses, and community events, call 485-5975.

COMPUTER FOR SALE. MacPlus 1MB: internal floppy, mouse, keyboard, external floppy drive. Software: Excel, MacWrite, and assorted others. Printers: GSC WriteImpact 24 pin letter-quality, Apple ImageWriter. Disks and manuals included. \$500 or best offer. 978-6378.

BRIDGE at The McGill Club, 21 McGill St. Every Tuesday evening at 6:30 starting September 13. Open game. Master Points, registration \$5. Valet parking \$5. Dinner from 5 p.m. \$10. Telephone 977-4122.

Where to find THE BULLETIN

RACKS AND BOXES

Bloor & St. George southeast corner

Gerald Larkin Building 16 Devonshire Place, lobby.

Claude T. Bissell Building 140 St. George St., outside

Robarts Library north entrance

Wycliffe College Hoskin Ave. at Tower Rd.

Whitney Hall 85 St. George St., in sheltered entrance

Sir Daniel Wilson Residence 73 St. George St., box by porter's door

Sir Daniel Wilson Residence southwest corner

21 King's College Circle inside front door

University College lobby

Simcoe Hall rack inside door

Medical Sciences Building main entrance

Medical Sciences Building east side by dean's office

Sigmund Samuel Library lobby

Hart House Arbor Room entrance

Sidney Smith Hall inside east and west doors

Sidney Smith Cafeteria east door

Innis College Sussex Ave., at Innis College Cafe

New College 21 Classic Ave., Wetmore Hall

New College 40 Willocks St.

New College northeast corner, Huron and Willocks

Botany 25 Willocks St., corridor on east side

Forestry 33 Willocks St., east entrance

45 Willocks St. front of building

Lash Miller Chemical Laboratories Willocks St. and St. George St. entrances

McLennan Physical Laboratories main foyer

Knox College 59 St. George St., southwest corner

45-49 St. George St. box between buildings

Galbraith Building lobby on St. George St.

International Students Centre inside door

Koffler Student Services Centre St. George St. and College St. entrances

215 Huron St. inside front door

Sandford Fleming Building in open area

College St. & King's College Rd. northeast corner

FitzGerald Building Taddecock Road, east side

Best Institute 112 College St., on wall

RESEARCH NOTICES

For further information and application forms for the following agencies, please contact University of Toronto Research Services (UTRS) at 978-2163.

GENERAL ATMOSPHERIC ENVIRONMENT SERVICE

Applications are invited for two post-doctoral fellowships in the area of adaptive response to atmospheric change, tenable at the Institute for Environmental Studies at U of T and at the Sustainable Development Research Institute at UBC (one at each). The fellowships are intended to strengthen interdisciplinary research in a university-government partnership on the short-term and long-term potential for adaptive responses that are resilient to both ecological and socioeconomic change. Applicants should have training in environment or a related field and have expertise in policy analysis and the socioeconomic dimension of environmental decision making. Appointments are initially for one year commencing Sep. 1 or as soon as possible thereafter and are renewable. Letters of application with cv, and names of three referees should be addressed to: Dr. Ian Burton, Environmental Adaptation Research Group, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ontario, M3H 5T4 (fax, (416) 739-4297).

FOREIGN AFFAIRS & INTERNATIONAL TRADE CANADA

Research & Training for Reform provides grants to cover travel and living allowances to academic and professionals from Russia, Ukraine, Latvia, Lithuania and Estonia for short-term practical research and internships of one to four months with the general aim of promoting economic and democratic reform in Russia, Ukraine and the Baltic states. Potential areas for research are: legal and judicial reform; democratic principles; environmental issues; conflict resolution; and Arctic and northern development (Russia only). Applications may be submitted either by potential Canadian hosts or by the applicants themselves directly from their own countries to the Association of Universities & Colleges of Canada, which manages the program. The application period for arrivals in early 1995 is September 1 to October 31.

MEDICINE & LIFE SCIENCES BRAIN TUMOR FOUNDATION OF CANADA

The foundation supports brain tumor research and provides patient and family support services and education services to the public. Funding for research grants is initially limited to \$20,000 for one year, with the possibility of renewal. Deadline is October 1.

CANCER RESEARCH INSTITUTE (US)

Clinical research seed grants are offered to support phase I or phase I/II clinical trials that test the novel use of monoclonal antibodies, vaccines or cytokines for the treatment of melanoma and colon cancer. Grants are available up to \$100,000 to \$200,000 over three years. There are no citizenship restrictions and research may be conducted anywhere in the US or abroad. Deadline is September 1.

HEALTH CANADA/NHRDP/MRC

The collaborative initiative on AIDS research program represents a collaborative initiative to support biomedical and clinical operating research grants and personnel awards (pre- and post-doctoral training and career awards). All applicants seeking support for AIDS-related proposals and personnel support should consult the appropriate current Health Canada/NHRDP guidebooks for a description of the requirements and application procedures governing submission. Submit applications for AIDS research proposals on NHRDP Form 1, for pre- and post-doctoral training awards on NHRDP Form 47 and for career awards on NHRDP Form 48. Deadline is September 15.

HEALTH CANADA/NHRDP

NHRDP has announced a special competition, co-sponsored by the Senior International Research Program and Canada's Drug Strategy, for the support of community researchers. The award provides salary support of \$37,500 per year and a research and travel allowance of \$10,000 per year to facilitate placement of qualified researchers or release time to conduct research. Applicants must be Canadian citizens or landed immigrants; current NHRDP community researcher award holders are not eligible. Submit applications on form NHRDP-CRA 1994. Deadline is September 21.

INTERNATIONAL CYSTIC FIBROSIS (MUCOVISCIDIOSIS) ASSOCIATION

The association invites submissions of international research projects, scholarships, professorships and training opportunities for allied health professionals relating to all aspects of cystic fibrosis. Projects with potential for broad application such as population screening, epidemiology or population genetics are preferred. International collaborative research is encouraged and may involve joint funding from national organizations. Projects centred in one institution will be considered only if they are, or may become, of international relevance. Deadline is September 15.

JUVENILE DIABETES FOUNDATION INTERNATIONAL

JDF supports research projects involving the cause, treatment, prevention and/or cure of diabetes and its complications. Career development awards are for candidates with three to seven years of post-doctoral research experience by the commencement of the award. Post-doctoral fellowships are for candidates entering their professional career. Fellows are required to work with a sponsor who can provide a training environment conducive to beginning a career in diabetes research. Deadlines are September 15 (intent) and October 1 (full application).

MEDICAL RESEARCH COUNCIL

Effective Sep. 1 the following programs are either to be cancelled or modified: MRC program grants: this program has been combined with the MRC group grant which now encompasses all collaborative research. Current program grants will be asked to renew through the new group program. Visiting professor: cancelled immediately; however, the international exchange programs are still available. Visiting professor: cancelled immediately.

Travel grants: cancelled immediately.

Dental fellowships: this is no longer offered as a separate program.

Regular MRC fellowship program. Dental clinician-scientist: this program is operating funds is no longer sub-funded. The regular MRC clinician-scientist program has been expanded to include applicants from schools of dentistry.

Centennial fellowships: will be awarded for the fourth and/or fifth year of post-doctoral training. They are not renewable. Investigators are advised to consult the current MRC guidelines for precise details.

Major changes have been made to the MRC student awards program and students will not longer apply direct to MRC for these awards. Effective immediately researchers are advised to train an MRC student in their laboratory must submit their request to nominate one or more students as part of their application for an MRC operating or group grant. The student does not need to be named on the form.

The research program and training stipend will be evaluated by the appropriate grants committee and highly ranked grants will then be authorized to select their student award recipient(s). MRC is still developing its policy with respect to existing

grants. A separate bulletin on this subject will be issued. Grantees may still fund students from their research grants. Further details and stipend rates will be found in the current MRC guidebook and supervisors and students are advised to review the new terms and conditions carefully.

Jointly sponsored training and salary-supported awards offer support for postdoctoral fellowships and scholar awards. All awards are subject to the usual terms and conditions governing MRC programs with some specific exceptions where noted in the current guidebook. MRC industrial partners have put these jointly sponsored programs on hold: Glaxo Canada Inc./MRC fellowships; Zeneca Pharma Inc./University of Toronto/MRC fellowships; and Unisource Canada/Alzheimer Society of Canada/MRC fellowships. Eligibility requirements, application procedures and deadlines vary according to the partner sponsor and program. Interested applicants should consult the current MRC guidebook.

MRC scholar awards offer investigators an opportunity to initiate and carry out independent research unhampered by full teaching duties expected of a regular member of the university staff. Candidates still in training who do not hold a faculty appointment must plan to take up an appointment within 12 months of the date of offer of award. Candidates who hold faculty appointments are eligible to be nominated if they have held the appointment for less than 24 months before the competition deadline. A candidate who has held research funding as a principal grantee for more than 24 months is not eligible. Application is by MRC 19 and made by the president of the University. Please allow UTRS a minimum of three working days to obtain the appropriate designate signature. Deadline is September 15.

MRC has created two new categories of career support which extend the research career development ladder from 10 to 20 years. MRC scholar and scientist programs will continue unchanged. The MRC senior scientist award will fund investigators with nine to 14 years of experience, and the MRC distinguished scientist award will fund investigators with 15 to 20 years experience, at \$50,000 per annum for five years. For all programs candidates must hold a health-related master's or PhD (or equivalent) and have the requisite number of years of experience as an independent investigator in a university position or equivalent. Deadline for all categories is September 15.

Funds for equipment for a single project should be included in the request for an operating grant. A separate request for equipment may be made only in the year in which an application for operating funds is not being submitted. Deadlines are September 15 and March 15. Applications for maintenance of equipment used by a single investigator should be submitted only in the year in which an application for operating funds is not being submitted.

The closing dates for receipt of both new and renewal maintenance applications are September 15 and March 15. For those current maintenance grants with a renewal date of Nov. 1 the renewal date will be revised to the following March 15. Once the renewal application is submitted, the current funding will be extended until Sept. 30, 1995. Amendments have been made to the maintenance grant (MRC 30 1990) and the equipment grant (MRC 28 1993) application forms. This information is contained on a supplementary sheet, available from UTRS and the research office of the Faculty of Medicine.

Several application forms have been revised. The following versions will be accepted by MRC: MRC 11 (1994) operating grant; MRC 18 (1994)

fellowship; MRC 19 (independent investigator salary support); and MRC 20 (1994) centennial fellowships. Please make sure that the most recent version of the appropriate form is used when completing submissions.

ONTARIO FRIENDS OF SCHIZOPHRENIA/OMHF

The Ontario Friends of Schizophrenia will provide research grants to support investigations that bear on understanding the cause of schizophrenia, discovering causes, prevention and developing improved treatments. The Ontario Mental Health Foundation will manage the peer review of all applications submitted and will administer grants made to successful applicants. Deadline is September 30.

ONTARIO MENTAL HEALTH FOUNDATION

The foundation supports research dealing with any of the biological, psychological or social factors that either foster mental health or lead to mental illness. Applications will be accepted for research projects dealing with any period of the life-span, any of the factors thought to promote mental health or to cause mental disorder and from any of the relevant scientific specialties. The foundation has a particular interest in studies which address mental health problems of importance in Ontario. Funding is available for research grants; major equipment; publications; conferences; and "sundry awards." There is no deadline for applications for sundry awards, conferences, publications. For research grants, major equipment grants the deadline is September 30.

THE PHYSICIANS' SERVICES INCORPORATED FOUNDATION

The foundation offers support towards the education of practising physicians and health research. Funding for education is restricted and operated directly by the foundation. The priority areas of research are: clinical research, medical education research and development at the post MD level, health systems and community-based research. Applications will be considered only where a practising physician is actively involved. Investigators are advised to read the foundation's current Guide to Submission of Grant Applications that forms part of the current application form (GI-05-94). Deadline is September 5.

PHYSICAL SCIENCES & ENGINEERING NATIONAL RESEARCH COUNCIL

The Senate prize in the natural sciences is Canada's most prestigious award for young scientists and engineers. It consists of a cash award of \$7,500, given once a year to persons up to 40 years of age for outstanding scientific research. Candidates for the prize must be nominated by colleagues and further details of nomination procedures are available at UTRS. Nominations should be sent directly to NRC with a copy to UTRS. Deadline is October 1.

NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL

In April 1994 NSERC and SSHRC consulted universities on a proposed simplification of application procedures for grants in support of research involving the use of animals, human subjects, or biohazards. The NSERC and SSHRC have agreed to implement the new procedures. It is important to note that the councils continue to insist that applicants for grants adhere to the requirements outlined in the program guidelines. However, it has been agreed that applicants will no longer have to submit certificates with applications for grants. The universities will still be required to undertake the appropriate review of research protocols to ensure that they meet requirements. The

signature of the university authorities on an NSERC or SSHRC grant application signifies the university's agreement not to release council funds to a researcher until all necessary requirements have been met. Further details may be obtained from UTRS.

NSERC invites interested researchers to submit suitable topics for bilateral research workshops involving China, France, Germany, Japan, Korea, Mexico or Taiwan. A bilateral workshop involves about eight researchers from each country who will meet during a period of several days to exchange information and discuss development in a research field of mutual interest. The intent of the workshop is to build links between the researchers of the two countries, who are all experts in the field, with the possibility of future research collaboration. Proposals, subject to peer review, may be submitted at any time but, in general, they should be received by NSERC at least nine months before the intended workshop date. In the case of Taiwan, the National Science Council of Taiwan has expressed an interest in the holding of a Canada-Taiwan bilateral research workshop during 1995 either in Canada or Taiwan. Proposals for such a workshop should be submitted to NSERC no later than September 30.

ONTARIO MINISTRY OF TRANSPORTATION

The Ontario Ministry of Transportation is inviting submissions for projects to be funded under contract in the 1994/95 government fiscal year on specific topics, as follows: 93126—development of methods for the analysis of anti-striping agents in asphalt mixes; 94005—asphalt rejuvenators used in hot-in-place recycling (HIR); 94007—use of fracture toughness in performance-based specifications of asphalt binders; 94008—human and social factors in systems design of highway lighting; 94063—steel slag modification and treatment measures for use as a highway construction material; 94098—service life modelling of highway structures made with high performance concrete; 94133—design of a salt removal system for groundwater aquifers below patrol yards; 94135—MTO environmental technologies: validation of prediction technology for off-site contaminant migration; 94136—model development for impact prediction; 94150—identifying, prioritizing, programming and evaluating safety improvement/hazard reduction projects; 94155—(a) install SNOWDRIFT computer program on UNIX platform and (b) new algorithms for snow control devices in the SNOWDRIFT computer program; 94156—coordination of field trials and development of performance specifications for winter abrasives and deicers; 22253—environmental potential of construction materials for predictive model testing; 22239—ditch liner technology evaluation; 22253—wetlands impact assessment and mitigation; mitigating measures; 22254—measurement system for quantifying effect of erosive sediment control on receiving waters; 22259—(a) environmental pathways analysis of highway expansion: initial scoping studies, (b) measurement of impact of highway runoff on receiving water ecosystems, (c) watershed based erosion control, (d) riparian habitat. Detailed requirements for the above topics and ministry proposal guidelines are available from UTRS. Deadline at the university is August 31.

ALFRED P. SLOAN FOUNDATION

Post-doctoral fellowships in molecular studies of evolution are being offered for scientists interested in developing interdisciplinary skills. Especially to encourage molecular biologists. Deadline is September 6.

UPCOMING DEADLINES

AUGUST 31
Much of Dimes (US) — Basil O'Connor starter scholar research award (nominations)
SEPTEMBER 1
American Society of Hematology — scholar awards
Heart & Stroke Foundation — career investigatorships, grants-in-aid, scholarships
Human Frontier Science Program — research grants
London Life — award in medical research nominations (Internal Faculty of Medicine deadline)
MRC — clinical trials, university/industry clinical trials, Michael Smith award for excellence (nominations)
National Institutes of Health — AIDS research grants (new)
NSERC — 1995 Canada Gold Medal for Science & Engineering
Networks of Centres of Excellence — letters of intent
Procter & Gamble Company — animal alternatives research
Whitaker Foundation — preliminary proposals
SEPTEMBER 5
Physicians' Services Inc. Foundation — research grants
SEPTEMBER 6
Alfred P. Sloan Foundation — post-doctoral fellowships
SEPTEMBER 9
Canadian Foundation for AIDS Research — research grants (letter of intent)
SEPTEMBER 13
American Foundation for AIDS Research — targeted programs (letter of intent)
SEPTEMBER 15
Alcoholic Beverage Medical Research Foundation — research grants
Arthritis Society — research scientists, research scholar
Association for Canadian Studies — intercultural/interregional exchange program
Canadian Genome Analysis & Technology Program — research grants, career development grants (invited full application)

Health Canada — MRC/NHRDP AIDS research program
International Cystic Fibrosis (Mucoviscidosis) Association — research grants
Juvenile Diabetes Foundation International/Canada — post-doctoral fellowships, career development (letter of intent) MRC — operating, equipment, multi-user equipment, maintenance, maintenance for multi-user equipment grants, studentships (nominations only). MRC scholars, MRC scientists, senior scientists, distinguished scientists, career investigators (renewals only), Cancer Research Society/MRC scholar
SEPTEMBER 21
Connaught Laboratories — Canadian universities research fund (letter of intent) (UTRS deadline)
Health Canada — SIRP community researcher awards
SEPTEMBER 30
American Council of Learned Societies — fellowships
Amyotrophic Lateral Sclerosis Association (US) — full research grant applications
Ontario Friends of Schizophrenics/OMHF — research grants
Ontario Mental Health Foundation — research grants, major equipment grants
Pritz Galien — nominations
NSERC — Canada Taiwan bilateral research workshops
OCTOBER 1
American Lung Association — fellowship awards, nursing research training, career investigator awards
Amyotrophic Lateral Sclerosis Association (US) — research grants (letter of intent)
Brain Tumor Foundation of Canada — research grants
Canadian Cystic Fibrosis Foundation — CF clinic incentive grants, fellowships, studentships (pre-doctoral), research grants (new and renewal), scholarships, translation support services grants, transplantation research and support grants
Canadian Genome Analysis & Technology Program — research grants and career development only (letters of intent)

intent)
Cancer Research Institute (US) — fellowships in cancer immunology/general immunology
Wendy Will Case Cancer Fund, Inc. — research grants
Cutter Biological/Canadian Red Cross — research fund (full application)
Dermatology Foundation (US) — clinical career development awards, career development awards, fellowships, Dermatology Foundation grant
American Society for Dermatologic Surgery grant awards
Foundation for Chiropractic Education & Research — research grants
Harnish Institute for the History of Medicine — archive/museum studies (medical history internship program), special grants (letter of intent)
Health Canada (NHRDP) — research grants, pilot/feasibility projects
Hospital for Sick Children Foundation — research grants, fellowships, conferences and seminars, films and audiovisual projects
International Union Against Cancer — international fellowships, American Cancer Society research fellowships
Juvenile Diabetes Foundation International/Canada — career development awards (full application), fellowships (full application)
Leukemia Society of America — scholars, special fellows, fellows
London Life — award in medical research, ranked nominations (Faculty of Medicine)
March of Dimes (US) — basic research grants
MRC — international scientific exchanges: Argentina, Brazil, China, France, Italy, Yugoslavia, toronto (letter of intent), maintenance for multi-user equipment (new and renewal), multi-user equipment, MRC groups (new and renewal full application except where specifically notified)
Multiple Sclerosis Society of Canada — career development, post-doctoral fellowships, research grants, research studentships
National Institutes of Health (US) — new research grants
NRC — Steacie prize (nominations)

The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible and in the case of obituaries, a CV is especially welcome.

Please send, deliver or fax the information to:

JANE STIRLING, EDITOR,
21 King's College Circle, 2nd floor,
fax, 978-7430.

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PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

MONDAY, AUGUST 22
Deborah Ann McLennan, Department of Zoology, "The Evolution of Nuptial Colouration in the Gasterosteidae with Emphasis on the Brook Stickleback, *Culaea inconstans* (Kirtland): It's Not Just Males Anymore." Prof R. Winterbottom.
TUESDAY, AUGUST 23
Piet Robrecht Defraeye, Graduate Centre for Study of Drama, "Shocking the Audience: A Study of Audience Provocation in the Theatre with Special Reference to Arrabal, Handke and Brecht." Prof. M.J. Sidnell.
Clarence William Joldersma, Department of Education, "The Mind of Science: A Critique of Computationalism's Scientific Approach to Mind." Prof. E.C. Olsen.
Steffanie Anne Stratheec, Department of Community Health, "Quantitative Measures of HIV-Specific Antibodies as Predictors of Progression to AIDS in a Cohort of Homosexual Men." Prof. J.W. Frank.
WEDNESDAY, AUGUST 24
Michel Laurin, Department of Zoology, "The Osteology of Seymouriamorphs and Its

Implications for the Origin of Amniotes." Prof. R.R. Reisz.
THURSDAY, AUGUST 25
Susan Alice Reid-MacNevin, Department of Education, "Ideology, Critical Thinking and Current Criminological Issues: Using Debates as a Pedagogical Tool in Undergraduate Education." Prof. M. Zuker.
TUESDAY, AUGUST 30
Michael John Horvath, Department of Chemistry, "Studies in Selective Fluorination and the Coordination Chemistry of Alkyl Iodides and Ligands Meso and Racemic 1,2-bis(phenylphosphine-oxide)ethane." Prof. J. Powell.
Lloyd Arthur Saiban, Department of East Asian Studies, "Wang Yangming on Moral Decision." Prof. J.C. Ching.
WEDNESDAY, AUGUST 31
Christopher Kenneth Ingle Williams, Department of Computer Science, "Combining Deformable Models and Neural Networks for Handprinted Digit Recognition." Prof. G. Hinton.
Katherine Elizabeth Wolkow, Department of Psychology, "Understanding Primacy: Investigation into the Role of

Contextual Distinctiveness and Change." Prof. P. Muter.
THURSDAY, SEPTEMBER 1
Daniel Augustus Badoe, Department of Civil Engineering, "An Investigation into the Long-Range Transferability of Work-Trip Discrete Mode Choice Models." Prof. E.J. Miller.
Chang Hong Liu, Department of Psychology, "Symbolic Relations Affect Reaction Time, Recall and Analogy but Not Metaphor." Prof. J.M. Kennedy.
FRIDAY, SEPTEMBER 2
Lea Fialkow, Institute of Medical Science, "Reactive Oxygen Intermediates as Signaling Molecules: Implications for Acute Lung Injury." Prof. G.P. Downey.
TUESDAY, SEPTEMBER 6
Kenneth Wally Der, Department of Civil Engineering, "Automated Design and Investigation of Moment Resisting Frames." Prof. G.T. Will.
WEDNESDAY, SEPTEMBER 7
Wenyan Ni, Department of Mechanical Engineering, "Numerical Prediction of the Statistical Properties of Heated Turbulent Air Jets in a Cross-Flow." Prof. J.F. Keffer.

WHERE MEMORIES ARE MADE

Tino, Gino, the brides and the grooms congregate at University College

By MALCOLM BURROWS

TINO DI BIAS HAS AN EYE FOR WEDDINGS. TINO is a videographer working for a studio near Canada's Wonderland, and on summer weekends he can often be found in the vicinity of University College.

"The theme of the day is a love story," he said on a beautiful Saturday afternoon in early June. "My job is to capture the love of the day — the fun of the day. Or the fun that the day is supposed to be ... because it can be very stressful for everyone involved."

Tino was working for one of the 10 wedding parties crowding the gardens of University College, one of Toronto's favourite settings for wedding photographs. Up to 50 wedding parties use UC as a backdrop on a spring or summer Saturday, said Gino, the driver of a white stretch Lincoln Continental with teddy bear bride and groom on the trunk. Unlike many other popular Toronto sites for wedding photographs, the University does not require permits. And couples don't need to book in advance; there is usually plenty of room for everyone.

But parking can be a problem. On sunny afternoons King's College Circle is ringed with white stretch limousines. There are Lincolns and Cadillacs and slightly more exotic vehicles such as stretch Jaguars. There are also white luxury minivans to hold large wedding parties as well as the occasional Rolls Royce or Bentley. On this afternoon the fleet included two 1959 Cadillacs — one pink, one white — with enormous tail fins and sparkling chrome.

UC may be more popular with brides and grooms than ever before.

Joanne, the bride who hired Tino, took time out from her wedding day to suggest why. "Flowers have been overdone," she explained. "Everyone has flowers and I wanted something different. I wanted a more classical look — just trees and old buildings."

Tom, Joanne's husband of three hours, agreed. They both thought UC was "really pretty."

Frank, an amiable photographer from Woodbridge, said wedding photographs using architectural elements are very popular. The couple he worked for, Frank and Franca, also thought wedding shots with lots of flowers are passé. That was little consolation for one of their bridesmaids, who had an attack of allergies brought on by the trees and shrubs.



THE SUN WAS FILTERING THROUGH THE TREES AND THERE was a cool breeze blowing as Tino worked with Joanne and Tom and their wedding party of eight. The women were dressed in turquoise dresses that stopped just at the knee. The men wore classic black tuxes. After a shot with brass champagne flutes and a wicker picnic hamper on the grass, Tino had the wedding party form two parallel lines: men in one, women in the other. As he focused the camera down the middle of the two lines, Tino asked Joanne and Tom to walk towards him. He directed Joanne to kiss each of the men and Tom each of the women. At the end of the line they embraced for the camera with the wedding party in the background.

Later Tino had Tom and Joanne dance on the path leading to the college's west entrance. "We're going to put music to this," he said, "so just sway and do lovey-dovey stuff." Tino let the camera roll and then said: "Show me your rings." He moved in for a close-up on their rings before panning to their feet and gradually back up to their smiling faces.

"Now we're going to do something different," Tino announced abruptly. "I want you to pick her up like a baby and swing her around and around." Tom hesitated.

"It's optional," said Tino. "Can you do that?"

Tom nodded.

"You sure?" Joanne asked sceptically.

Tom picked Joanne up and spun her around as Tino said encouragingly, "Good. Show her the man you are." After 20 seconds they both looked a bit dizzy and Tino let them go back to their limousine to get ready for the reception.

Malcolm Burrows is a member of the Department of Alumni & Development. He had his wedding photographs taken at University College.



JEWEL MANDELBERG